



IFW

500.43116X00

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): K. SUZUKI, et al

Serial No.: 10/659,398

Filed: September 11, 2003

For: DISK ARRAY APPARATUS AND METHOD FOR CONTROLLING
THE SAME

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.97 & 1.98**

MS Amendment

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

June 13, 2005

Sir:

In the matter of the above-identified application, applicants are submitting herewith copies of the documents listed in the attached form equivalent to Form PTO-1449 for the Examiner's consideration. Applicants hereby inform the Examiner that only copies of the foreign applications, publications and articles are being submitted herewith. No copies of the U.S. documents are being submitted.

This information disclosure statement is being submitted before the mailing date of a first office action on the merits.

To the extent the documents listed on the attached form equivalent to Form PTO-1449 are not in the English language, the requirement of 37 CFR §1.98(a)(3) for a concise explanation of the relevance is satisfied by an English language translation of the documents.

It is respectfully requested that this information disclosure statement be considered by the Examiner.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to the deposit account of MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C. Deposit Account No. 50-1417 (500.43116X00) please credit any excess fees to such deposit account.

Respectfully submitted,


Carl I. Brundidge 32,846
Registration No. 29,621
MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C.

CIB/jdc
(703) 684-1120



FORM PTO-1449 U.S. Department of
Commerce Patent and Trademark Office

INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.

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SERIAL NO.

10/659,398

APPLICANT

K. SUZUKI, et al

FILING DATE

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GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING D. IF APPROP
		6	6	3	6	9	3	4					
		5	9	5	1	6	9	1	09/99	Ng et al			
		6	1	1	5	7	9	7	09/00	Kanda et al			
		6	1	7	3	3	6	0	1/01	Beardsley et al			
		6	5	5	3	4	0	8	4/03	Merrell et al			
		6	6	0	6	6	9	0	8/03	Padovano			
		6	7	7	2	3	6	5	8/04	Obara			
2 0 0 4		0	1	6	2	9	4	0	8/04	Yagisawa et al			
2 0 0 3		0	2	2	1	0	6	1	11/03	EI-Batal			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
		0	8	4	4	5	6	1					
		0	8	4	4	5	6	1	5/98	European			YES

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER	DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

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								K. SUZUKI, et al		
								FILING DATE	GROUP	
								September 11, 2003		

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING D. IF APPROP
		6	1	0	8	7	4	8	08/00	Ofek et al			
		6	5	1	0	4	9	1	1/03	Franklin et al			
		6	6	5	1	1	3	7	11/03	Baek et al			
		6	7	0	8	2	3	2	03/04	Obara et al			
		5	5	4	6	5	5	8	8/96	Jacobson et al			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
		1	3	1	5	0	7	4	5/03	European			YES

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	2 0 0 4	0	1	9	3	7	6	0	9/04	Matsunami et al			
	2 0 0 4	0	1	9	9	5	1	5	10/04	Penny et al			
	2 0 0 2	0	1	3	8	7	0	5	9/02	Suzuki et al			
	2 0 0 3	0	2	2	1	0	7	7	11/03	Ohno et al			
	2 0 0 4	0	0	1	0	6	6	2	1/04	Aruga			

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	2 0 0 4	0	1	2	8	6	2	7	7/04	Zayas			
	2 0 0 3	0	0	9	7	6	0	7	5/03	Bessire			
	2 0 0 4	0	0	1	0	6	6	0	1/04	Konshak et al			
	2 0 0 4	0	0	7	8	7	0	7	4/04	Apperley et al			
	2 0 0 4	0	0	7	3	7	4	7	4/04	Lu			
	2 0 0 4	0	1	7	7	2	1	8	9/04	Meehan et al			

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		5	6	0	3	0	0	3	2/97	Akizawa et al			
		5	8	3	8	8	9	1	11/98	Mizuno et al			
		5	8	6	7	7	3	6	2/99	Jantz			
		5	8	8	4	0	9	8	3/99	Mason, Jr.			
		6	2	1	9	7	5	2	4/01	Sekido			
		6	2	2	3	2	4	9	4/01	Kato et al			
		6	5	4	9	9	7	8	5/03	Mansur et al			
		6	6	4	0	2	7	8	10/03	Nolan et al			
		6	6	8	4	2	9	5	1/04	Fujimoto et al			
		6	7	4	5	2	8	7	6/04	Fujimoto et al			
		6	2	0	1	6	9	2	3/01	Gamble et al			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
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	2 0 0 2	3	3	3	9	5	4		11/02	Japan			
	2 0 0 4	1	7	8	5	5	7		6/04	Japan			

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		6	6	2	8	5	1	3	9/03	Gallagher et al			
		6	8	3	1	8	3	9	12/04	Bovell			
		6	0	6	1	7	5	0	5/00	Beardsley et al			
		6	7	6	3	4	3	6	7/04	Gabber et al			
		6	7	9	2	4	8	6	9/04	Hanan et al			
		6	1	3	7	6	7	9	10/00	Chang			
		6	3	5	1	3	7	5	2/02	Hsieh et al			
		6	4	8	4	2	3	6	11/02	Fujimoto et al			
		6	4	8	4	2	6	9	11/02	Kopylovitz			
		6	7	2	8	9	2	2	4/04	Sundaram et al			
		5	4	7	5	8	1	4	12/95	Tomimitsu			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	ABSTRACT
		0	2	1	8	8	3	5		Japan			YES

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	IBM Technical Disclosure Bulletin vol. 38, No. 7, July 1995 (New York), "Foreground/Background Checking of Parity in a Redundant Array of Independent Disks-5 Storage Subsystem", pp. 455-458.
	Laboratory Automation and Information Management 32, 1996, (Elsevier Science B.V.), R E Dessey, "Computer Connections", pp. 53-62.

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		6	5	0	2	1	0	8	12/02	Day, III, et al			
		6	6	5	8	5	9	2	12/03	Cohen et al			
2 0 0 2	0	0	0	7	4	6	9		1/02	Taketa et al			
2 0 0 2	0	0	4	0	4	1	3		4/02	Okada et al			
		6	1	5	4	8	5	0	11/00	Idleman et al			
		6	4	0	0	7	3	0	6/02	Latif, et al			

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		2	1	4	2	6	5	0		5/01	Japan			YES

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2003	2	0	0	9	7	5	0	4	5/03	Oeda et al			
2003	2	0	1	1	5	4	3	7	6/03	Tomita			
2003	2	0	1	4	5	1	6	7	7/03	Tomita			
2003	2	0	1	9	6	0	0	2	10/03	Nakayama et al			
2003	2	0	1	9	6	1	4	7	10/03	Hirata et al			
2003	2	0	2	0	4	6	7	1	10/03	Matsunami et al			

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2 0 0 4	0	0	2	4	9	3	0	2/04	Nakayama et al				
2 0 0 4	0	0	6	8	6	1	0	4/04	Umberger et al				
2 0 0 4	0	1	0	7	3	2	5	6/04	Mori				

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2 0 0 1	0	0	4	6	1	1	8		11/01	Yamanashi et al				
2 0 0 1	0	0	5	4	1	3	6		12/01	Ninomiya et al				
2 0 0 1	0	0	5	6	5	2	7		12/01	Ninomiya et al				
2 0 0 2	0	1	6	2	0	5	7		10/02	Talagala				
2 0 0 3	0	0	4	1	2	0	1		2/03	Rauscher				
2 0 0 3	0	1	7	2	1	5	0		9/03	Kennedy				
2 0 0 4	0	1	1	7	5	3	4		6/04	Parry et al				
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2 0 0 3		0	2	2	1	0	6	1	11/03	EI-Batal et al			
2 0 0 3		0	0	4	1	2	7	8	2/03	Lin			
2 0 0 4		0	1	1	1	5	6	0	6/04	Takase et al			
2 0 0 4		0	2	6	7	5	1	6	12/04	Jibbe et al			
2 0 0 5		0	0	2	7	9	0	0	2/05	Pettey			

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	2 0 0 3	0	2	3	1	4	2	0	12/03	Kano et al				
	2 0 0 4	0	0	8	8	4	8	2	5/04	Tanzer et al				
	2 0 0 4	0	1	6	9	9	9	6	9/04	Paul et al				
	2 0 0 1	0	0	1	9	5	0	9	9/01	Aho et al				
	2 0 0 3	0	0	4	6	4	6	0	3/03	Inoue et al				
	2 0 0 4	0	1	3	9	2	6	0	7/04	Steinmetz				
	2 0 0 4	0	1	4	8	3	2	9	7/04	Ogasawara et al				
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	2 0 0 2	0	0	4	9	8	8	6	4/02	Furuya et al			
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	2 0 0 3	0	1	6	7	4	3	9	9/03	Talagala et al			
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	2 0 0 4	0	1	1	1	4	8	5	6/04	Mimatsu et al			
	2 0 0 4	0	2	6	8	0	3	7	12/04	Buchanan, Jr. et al			
	2 0 0 4	0	2	6	8	0	6	9	12/04	Satoyama et al			
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		6	7	7	2	2	8	7	8/04	Uchiyama et al			
		6	6	8	4	2	8	2	1/04	Kocis			
2 0 0 3	0	1	8	2	5	0	2		9/03	Kleiman et al			
2 0 0 2	0	0	1	9	8	9	7		2/02	Cruyningen			
2 0 0 4	0	2	4	3	3	8	6		12/04	Stolowitz et al			

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2 0 0 3	0	2	1	2	8	5	9	11/03	Ellis				
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2 0 0 4	0	2	3	6	9	0	8	11/04	Suzuki et al				
2 0 0 3	0	1	1	0	3	3	0	6/03	Fujie et al				
	5	8	4	5	3	1	9	12/98	Yorimitsu				
2 0 0 3	0	1	4	9	8	4	0	8/03	Bolt, et al				

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	2002	0	1	4	7	9	4	5	10/02	Fox et al				
	2004	0	1	5	3	6	1	4	5/04	Bitner et al				
	2003	0	1	6	3	6	3	9	8/03	Baum				
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